

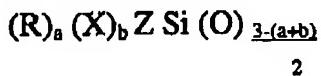
Appl. No. 10/038,319
Atty. Docket No. CM-2462
Arndt, dated October 4, 2004
Reply to Office Action of May 3, 2004
Customer No. 27752

Listing of the claims:

1. (Currently amended) A process for the domestic treatment of clothes, said process comprising the step of providing to said clothes a composition comprising a perfume and an aminosilicone comprising a sterically hindered functional group.
2. (Original) The process according to Claim 1, wherein the aminosilicone is provided in amounts of from about 1×10^{-7} g / g fabric to about 0.3 g / g fabric.
3. (Original) The process according to Claim 2, wherein the aminosilicone is provided in amounts of from about 1×10^{-5} g / g fabric to about 0.1 g / g fabric.
4. (Original) The process according to Claim 3, wherein the aminosilicone is provided in amounts of from about 1×10^{-3} g / g fabric to 1×10^{-2} g / g fabric.
5. (Original) A process according to Claim 1, wherein the aminosilicone is provided to said clothes:
 - with the last rinse of a conventional laundry cycle;
 - after the laundering process on said clothes in wet, damp or dry condition;
or
 - in a detergent composition.
6. (Original) A process according to Claim 1, wherein said aminosilicone is sprayed onto the clothes during a process of ironing the clothes.

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7. (Original) The process according to Claim 1, wherein the aminosilicone comprises a polyorganosiloxane having, per mole, at least one unit of general formula:



wherein:

each R is a monovalent hydrocarbon chosen from linear or branched alkyls having from 1 to 4 carbon atoms, the phenyl radical, the benzyl radical or the 3,3,3-trifluoropropyl radical;

each X is a monovalent radical chosen from a hydroxyl group and a linear or branched alkoxy radical having from 1 to 3 carbon atoms;

Z represents a monovalent group of the formula:

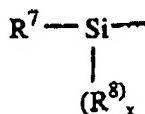


wherein each R¹ is a divalent hydrocarbon radical chosen from:

- linear or branched alkynes having from 2 to 18 carbon atoms;
- alkylene carbonyls in which the linear or branched alkylene part contains 2 to 20 carbon atoms;
- alkylene cyclohexylenes in which the linear or branched alkylene part contains from 2 to 12 carbon atoms and the cyclohexylene part contains an -OH group and optionally 1 or 2 alkyls having from 1 to 4 carbon atoms;
- radicals of the formula R²-O-R³- in which R² and R³ is each an alkylene having 1 to 12 carbon atoms;
- radicals of the formula R²-O-R³- in which R² and R³ have the meanings indicated above and one of them or both are substituted by one or two -OH group(s);

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- radicals of the formula $R^2\text{-COO-}R^3\cdot$ and $R^2\text{-OCO-}R^3\cdot$ wherein R^2 and R^3 have the meanings above;
- radicals of the formula $R^4\text{-O-}R^5\text{-O-CO-}R^6\cdot$ wherein R^4 , R^5 and R^6 , each is an alkylene having 2 to 12 carbon atoms and wherein R^5 is optionally substituted by a hydroxyl group;
- radicals of the formula



wherein R^7 is an alkylene having 1 to 4 carbon atoms, and R^8 is a linear or branched alkylene having 1 to 4 carbon atoms, phenyl or a phenylalkyl wherein the linear or branched alkyl part contains 1 to 3 carbon atoms; and where x is a number chosen between 0, 1 and 2; each U represents -O- or $\text{-NR}^9\cdot$, wherein R^9 is hydrogen, a linear or branched alkyl radical having from 1 to 6 carbon atoms, R^1 wherein one of the valency bonds being connected to the nitrogen of $\text{-NR}^9\cdot$ and the other being connected to a silicon atom or a divalent radical of the formula $\text{-R}^{10}\text{-N}(R^1)\text{-S}$ wherein R^1 has the meaning indicated above and R^{10} represents a linear or branched alkylene having from 1 to 12 carbon atoms, one of the valency bonds (that of R^{10}) being connected to the nitrogen atom of $\text{-NR}^9\cdot$ and the other (that of R^1) being connected to a silicon atom;

each S represents a monovalent group, wherein

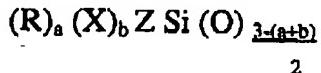
the free valency is a carbon atom, carrying a secondary or tertiary amine function, comprised in a cyclic hydrocarbon chain or in a heterocyclic chain comprising from 6 to 30 carbon atoms, in which the two atoms of the cyclic chain in the positions α and α' relative to the nitrogen atom, do not comprise any hydrogen atom;

the free valency is a carbon atom, carrying a secondary or tertiary amine function, comprised in a linear hydrocarbon chain comprising 6 to 40 carbon atoms, in which the two atoms of the cyclic chain in the

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positions α and α' relative to the nitrogen atom, do not comprise any hydrogen atom;
 each a is a number chosen from 0, 1 and 2;
 each b is a number chosen from 0, 1 and 2, wherein the sum $a + b$ is not greater than 2.

8. (Original) A composition comprising an aminosilicone comprising a sterically hindered functional group and a second ingredient selected from the group consisting of a fabric conditioner, a shape-retention polymer, a fabric void filler, a detergent surfactant, and mixtures thereof.
9. (Original) The composition according to Claim 8, wherein the aminosilicone comprises a polyorganosiloxane having, per mole, at least one unit of general formula:



wherein:

each R is a monovalent hydrocarbon chosen from linear or branched alkyls having from 1 to 4 carbon atoms, the phenyl radical, the benzyl radical or the 3,3,3-trifluoropropyl radical;

each X is a monovalent radical chosen from a hydroxyl group and a linear or branched alkoxy radical having from 1 to 3 carbon atoms;

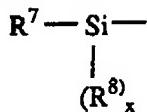
Z represents a monovalent group of the formula:



wherein each R^1 is a divalent hydrocarbon radical chosen from:
 - linear or branched alkylanes having from 2 to 18 carbon atoms;

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- alkylene carbonyls in which the linear or branched alkylene part contains 2 to 20 carbon atoms;
- alkylene cyclohexylenes in which the linear or branched alkylene part contains from 2 to 12 carbon atoms and the cyclohexylene part contains an -OH group and optionally 1 or 2 alkyls having from 1 to 4 carbon atoms;
- radicals of the formula R^2-O-R^3- in which R^2 and R^3 is each an alkylene having 1 to 12 carbon atoms;
- radicals of the formula R^2-O-R^3- in which R^2 and R^3 have the meanings indicated above and one of them or both are substituted by one or two -OH group(s);
- radicals of the formula $R^2-COO-R^3-$ and $R^2-OCO-R^3-$ wherein R^2 and R^3 have the meanings above;
- radicals of the formula $R^4-O-R^5-O-CO-R^6-$ wherein R^4 , R^5 and R^6 , each is an alkylene having 2 to 12 carbon atoms and wherein R^5 is optionally substituted by a hydroxyl group;
- radicals of the formula



wherein R^7 is an alkylene having 1 to 4 carbon atoms, and R^8 is a linear or branched alkylene having 1 to 4 carbon atoms, phenyl or a phenylalkyl wherein the linear or branched alkyl part contains 1 to 3 carbon atoms; and where x is a number chosen between 0, 1 and 2; each U represents -O- or -NR⁹-, wherein R⁹ is hydrogen, a linear or branched alkyl radical having from 1 to 6 carbon atoms, R¹ wherein one of the valency bonds being connected to the nitrogen of -NR⁹- and the other being connected to a silicon atom or a divalent radical of the formula -R¹⁰-N(R¹)-S wherein R¹ has the meaning indicated above and R¹⁰ represents a linear or branched alkylene having from 1 to 12 carbon atoms, one of the

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valency bonds (that of R¹⁰) being connected to the nitrogen atom of -NR⁹-
and the other (that of R¹) being connected to a silicon atom;

each S represents a monovalent group, wherein

the free valency is a carbon atom, carrying a secondary or tertiary

amine function, comprised in a cyclic hydrocarbon chain or in a

heterocyclic chain comprising from 6 to 30 carbon atoms, in which the

two atoms of the cyclic chain in the positions α and α' relative to the

nitrogen atom, do not comprise any hydrogen atom;

the free valency is a carbon atom, carrying a secondary or tertiary amine
function, comprised in a linear hydrocarbon chain comprising 6 to 40
carbon atoms, in which the two atoms of the cyclic chain in the
positions α and α' relative to the nitrogen atom, do not comprise any
hydrogen atom;

each a is a number chosen from 0, 1 and 2;

each b is a number chosen from 0, 1 and 2, wherein the sum a + b is not
greater than 2.

10. (Original) The composition according to Claim 8, wherein the aminosilicone is provided in amounts of from about 1×10^{-7} g / g fabric to about 0.3 g / g fabric.

11. (Original) The composition according to Claim 10, wherein the aminosilicone is provided in amounts of from about 1×10^{-5} g / g fabric to about 0.1 g / g fabric.

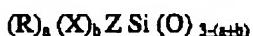
12. (Original) The composition according to Claim 11, wherein the aminosilicone is provided in amounts of from about 1×10^{-3} g / g fabric to 1×10^{-2} g / g fabric.

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13. (Original) An article of manufacture comprising an aminosilicone comprising a sterically hindered functional group, and usage instructions to use said aminosilicone for the treatment of clothes in a domestic process.

14. Original) An article according to Claim 13, further comprising a sprayer, an aerosol, a cartridge to be inserted in an iron for the dispensing of its content, or a substrate for use in an automatic clothes dryer.

15. (Original) The article according to Claim 13, wherein the aminosilicone comprises a polyorganosiloxane having, per mole, at least one unit of general formula:



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wherein:

each R is a monovalent hydrocarbon chosen from linear or branched alkyls having from 1 to 4 carbon atoms, the phenyl radical, the benzyl radical or the 3,3,3-trifluoropropyl radical;

each X is a monovalent radical chosen from a hydroxyl group and a linear or branched alkoxy radical having from 1 to 3 carbon atoms;

Z represents a monovalent group of the formula:

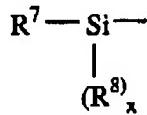


wherein each R¹ is a divalent hydrocarbon radical chosen from:

- linear or branched alkynes having from 2 to 18 carbon atoms;
- alkylidenecarbonyls in which the linear or branched alkyne part contains 2 to 20 carbon atoms;
- alkylencyclohexylenes in which the linear or branched alkyne part contains from 2 to 12 carbon atoms and the cyclohexylene part

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- contains an -OH group and optionally 1 or 2 alkyls having from 1 to 4 carbon atoms;
- radicals of the formula R^2-O-R^3- in which R^2 and R^3 is each an alkylene having 1 to 12 carbon atoms;
 - radicals of the formula R^2-O-R^3- in which R^2 and R^3 have the meanings indicated above and one of them or both are substituted by one or two -OH group(s);
 - radicals of the formula $R^2-COO-R^3-$ and $R^2-OCO-R^3-$ wherein R^2 and R^3 have the meanings above;
 - radicals of the formula $R^4-O-R^5-O-CO-R^6-$ wherein R^4 , R^5 and R^6 , each is an alkylene having 2 to 12 carbon atoms and wherein R^5 is optionally substituted by a hydroxyl group;
 - radicals of the formula



wherein R^7 is an alkylene having 1 to 4 carbon atoms, and R^8 is a linear or branched alkylene having 1 to 4 carbon atoms, phenyl or a phenylalkyl wherein the linear or branched alkyl part contains 1 to 3 carbon atoms; and where x is a number chosen between 0, 1 and 2; each U represents -O- or -NR⁹-, wherein R⁹ is hydrogen, a linear or branched alkyl radical having from 1 to 6 carbon atoms, R¹ wherein one of the valency bonds being connected to the nitrogen of -NR⁹- and the other being connected to a silicon atom or a divalent radical of the formula -R¹⁰-N(R¹)-S wherein R¹ has the meaning indicated above and R¹⁰ represents a linear or branched alkylene having from 1 to 12 carbon atoms, one of the valency bonds (that of R¹⁰) being connected to the nitrogen atom of -NR⁹- and the other (that of R¹) being connected to a silicon atom;

each S represents a monovalent group, wherein
 the free valency is a carbon atom, carrying a secondary or tertiary
 amine function, comprised in a cyclic hydrocarbon chain or in a

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heterocyclic chain comprising from 6 to 30 carbon atoms, in which the two atoms of the cyclic chain in the positions α and α' relative to the nitrogen atom, do not comprise any hydrogen atom;

the free valency is a carbon atom, carrying a secondary or tertiary amine function, comprised in a linear hydrocarbon chain comprising 6 to 40 carbon atoms, in which the two atoms of the cyclic chain in the positions α and α' relative to the nitrogen atom, do not comprise any hydrogen atom;

each a is a number chosen from 0, 1 and 2;

each b is a number chosen from 0, 1 and 2, wherein the sum a + b is not greater than 2.

16. (Original) An article according to Claim 13, wherein the domestic process comprises the steps of spraying said aminosilicone onto the clothes and ironing the clothes.
17. (Original) An article according to Claim 13, wherein the usage instructions comprise an instruction to use said aminosilicone to provide clothes with dry wrinkle resistance, in particular in-wear wrinkle resistance.
18. (Original) The article according to Claim 13, wherein the usage instructions comprise an instruction to use said aminosilicone in a manner that the aminosilicone is provided in amounts of from about 1×10^{-7} g / g fabric to about 0.3 g / g fabric.
19. (Original) The article according to Claim 18, wherein the aminosilicone is provided in amounts of from about 1×10^{-5} g / g fabric to about 0.1 g / g fabric.

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20. (Original) The article according to Claim 19, wherein the aminosilicone is provided in amounts of from about 1×10^{-3} g / g fabric to 1×10^{-2} g / g fabric.